

## ABSTRACT

An air filter designed to be placed at a definite distance  $L$  beyond the periphery of the primary airflow which is created by operating fan, and attached to a stationary element of the fan or to a stationary element of the enclosed space with the help of fastening means which are, at the same time, vibration isolation units. The present invention greatly reduces the creation and release of the fine particles of soot, mold, dust mites, etc., which are behind many child's environmental illnesses, behavioral and learning problems, and depression (which can be responsible for a child's gravitation toward drug use). For getting more opportunity for every home, office and school to make on them own invented fan filter with fastening means, the disclosure of this invention describes its five modifications, as well as the way to determine a distance  $L$  when the fastening means are used with ceiling fans, diffusors and noisy fans. There is described the design of fan filter with fastening means in accordance with present invention and the operating fan, wherein the base is weighted. In this case the weighted base of operating fan is acting as additional vibration dampening unit, which to an even greater degree prevent a creation of toxic fine particles, because the fan filter is attached to weighted base with the help of invented fastening means. This kind of fan filter should be used at home and in school where the children have a specific sensitivity to very small dust allergens, dust mites dropping or have seasonal allergy.

O G E R M A N I C